

Title (en)  
1,2-DIOXETANE DERIVATES AND REAGENTS EMPLOYING THEM

Title (de)  
1,2-DIOXETAN DERIVATE UND DIESE GEBRAUCHENDE REAGENZIEN

Title (fr)  
DÉRIVÉS DE 1,2-DIOXÉTANNES ET LES RÉACTIFS LES UTILISANT

Publication  
**EP 1342724 A1 20030910 (EN)**

Application  
**EP 03004897 A 20030306**

Priority

- JP 2002064040 A 20020308
- JP 2002088380 A 20020327

Abstract (en)

A 1,2-dioxetane derivative of the formula (I): <CHEM> wherein Ar is an aryl group which may have an alkyl group, an aryl group, a halogen atom, an alkoxy group, a carboxyl group, a formyl group, an alkyl ester, an aryl ester, an alkylketone, an arylketone or a hetero ring bonded thereto, X is a substituent capable of labeling an organic compound or a biological molecule, or an ester, Y is a hydrogen atom, an acyl group or a group of the formula -Si(R4R5R6) (wherein each of R4, R5 and R6 which are independent of one another, is an alkyl group or an aryl group), Z is an alkyl group, an aryl group, an oxygen atom, a sulfur atom, a carbonyl group, -(CO)-O-, -O-(CO)-, -NH-, -NH-CO-, -CO-NH-, -OSi(R7R8)- (wherein each of R7 and R8 which are independent of each other, is an alkyl group or aryl group) or a group of the formula -(R9R10) SiO- (wherein each of R9 and R10 which are independent of each other, is an alkyl group or an aryl group), each of R1 and R2 is an alkyl group or an aryl group, and R3 is a spacer.

IPC 1-7  
**C07D 493/04**; C07D 321/00; C07F 7/18; G01N 33/532; G01N 33/533; G01N 33/58

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CPC (source: EP US)  
**C07D 321/00** (2013.01 - EP US); **C07D 493/04** (2013.01 - EP US); **C07F 7/1804** (2013.01 - EP US)

Citation (search report)

- [A] US 5578253 A 19961126 - SCHAAP ARTHUR P [US], et al
- [A] EP 0779293 A1 19970618 - FUJIREBIO KK [JP]

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**EP 1342724 A1 20030910**; **EP 1342724 B1 20160106**; US 2003207329 A1 20031106; US 2004176611 A1 20040909; US 2005153365 A1 20050714; US 6747160 B2 20040608; US 6844453 B2 20050118; US 7115757 B2 20061003

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**EP 03004897 A 20030306**; US 26904 A 20041201; US 38285303 A 20030307; US 79833804 A 20040312